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**CHAPTER 7 HYDROLOGY**

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FILE IN: Expandable 08282006  
Refer to Record No. 0010  
in 00070011, 2006, Incoming,  
for additional information

**TABLE 7- 12**

**OPERATIONAL GROUNDWATER PARAMETER LIST**

**Field Measurements:**

Flow  
PH  
Specific Conductance  
Temperature

**Laboratory Analyses:**

~~Total Dissolved Solids~~  
~~Total Hardness (CaCO<sub>3</sub>)~~  
~~Total Cations and Anions~~  
Carbonate  
~~Cation Anion Balance~~  
Bicarbonate  
~~Calcium (Dissolved)~~  
Chloride  
~~Iron (Total and Dissolved)~~  
~~Magnesium (Dissolved)~~  
~~Manganese (Total and Dissolved)~~  
~~Potassium (Dissolved)~~  
Sodium  
Sulfate

Table 7-15

**Spring and Stream Monitoring  
Baseline Sampling List**

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Flow Rate	Sulfate ( $\text{SO}_4^{-2}$ )
PH	Sulfide ( $\text{SO}_2^{-1}$ )
Air and Water Temperature	Magnesium (Mg)
Conductivity	Manganese (Mn) (Total)
Dissolved Oxygen*	Mercury (Hg)
Total Suspended Solids **	Molybdenum (Mo)
Total Dissolved Solids	Nickel (Ni)
Total Settle-able Solids **	Nitrogen: Ammonia ( $\text{NH}_3$ )
Total Hardness ( $\text{CaCO}_3$ )	Nitrate ( $\text{NO}_3^{-1}$ )
Total Cation Anion Balance	Recover Space
Acidity **	Nitrite ( $\text{NO}_2$ )
Aluminum (Al)	Potassium (K)
Arsenic (As)	Phosphate Total ( $\text{PO}_4^{-3}$ )
Barium (Ba)	Selenium (Se)
Boron (B)	Sodium (Na)
Carbonate ( $\text{CO}_3^{-2}$ )	Zinc (Zn)
Bicarbonate ( $\text{HCO}_3^{-1}$ )	Oil and Grease** (If Sheen Observed)
Cadmium (Cd)	Cation Anion Balance **
Calcium (Ca)	
Chloride ( $\text{Cl}^{-1}$ )	
Chromium (Cr)	
Copper (Cu)	
Fluoride (F)	
Iron (Fe) Total	
Lead (Pb)	

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\* Perennial Streams Only      \*\* Streams Only

For stream monitoring - major, minor ions and trace elements are to be analyzed in total and dissolved forms.

For spring monitoring - major, minor ions and trace elements are to be analyzed in dissolved form only.

Table 7-16

Stream Monitoring Operational Parameter List

Field Measurements:

Flow Rate  
PH  
Water Temperature  
Specific Conductance  
~~Dissolved Oxygen\*~~

Laboratory Analysis:

Total Suspended Solids  
~~Total Dissolved Solids~~  
~~Total Settleable Solids~~  
~~Total Cation and Anion~~  
~~Cation-Anion Balance~~  
Iron (Dissolved Total)  
Oil and Grease (If Observed)  
~~Sodium (Dissolved)~~  
~~Calcium (Dissolved)~~  
~~Magnesium (Dissolved)~~  
~~Potassium (Dissolved)~~  
Sulfate  
Bicarbonate  
Carbonate  
Chloride  
Total Hardness  
Acidity  
Manganese (Total)

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\* Perennial Steams Only

Table 7-17

## Water Monitoring Matrix

STATION	JAN	FEB	MAR	ARP	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ST-1				Operational	Field	Field	Field	Field	Operational	Field		
ST-2				Operational	Field	Field	Field	Field	Operational	Field		
ST-2B				Operational	Field	Field	Field	Field	Operational	Field		
ST-3			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
ST-3A			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
ST-3B			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
ST-4			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
ST-4A			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
ST-4B			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
ST-5			Operational	Operational	Operational	Field	Field	Field	Operational	Operational		
SP-2						Operational		Field		Operational		
SP-4						Operational		Field		Operational		
SP-5						Operational				Operational		
SP-11						Operational		Field		Operational		
SP-12						Operational		Field		Operational		
SP-13						Operational		Field		Operational		
D001*	Field	Operational	Field	Field	Operational	Field	Field	Operational	Field	Operational	Field	Field
D002*	Field	Operational	Field	Field	Operational	Field	Field	Operational	Field	Operational	Field	Field

\*D001 and D002 Operational samples will be tested for the parameters in Table 7-13. All others will be tested according to Table 7-16.

+ Field Samples collected in May only if Gentry Mountain is accessible.